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ABSTRACT

This book is part of the series "Explorations in Science" which contains enrichment activities for the general science curriculum. Each book in the series contains innovative and traditional projects for both the bright and average, the self-motivated, and those who find activity motivating. Each activity is self-contained and provides everything the student needs to gain a basic understanding of a concept or to work through a project. A comprehensive teacher's guide is included with each activity and discusses the goal, student objectives, prelab discussion, guide to investigation, vocabulary or glossary, guide to additional resources, and suggestions for further study for each project. Topics covered in the activities include: measurement, the compound microscope, cell biology, organic nutrients, diffusion, osmosis, paper chromatography, pH, hydrolytic enzymes, enzyme action, the effect of bile on fat, diet and nutrition, fermentation, respiration, the hemacytometer simulator, capillary circulation, human reflexes, vertebrate anatomy, photosynthesis, classification and identification of leaves, auxins, mitosis, cloning plants, flowers and seeds, DNA, human karyotype, evolution, developing a classification system, ecology, population, food webs, acid rain, solid waste, bacterial growth and enzymes, water purification, germs, and ideas for games. (JRH)

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